MONROE

Measuring Mobile Broadband Networks in Europe

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Report on Data Management Plan

Editor(s): Özgü Alay
Contributor(s): David Ros, Audun Fosselie Hansen, Andra Lutu

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Abstract

This report describes the data management plan. It specifies the various types of data produced and managed by the project and outlines the sharing, archiving and preservation processes that are followed.

Participant organisation name	**Short name**
SIMULA RESEARCH LABORATORY AS *(Coordinator)*	SRL
CELERWAY COMMUNICATION AS	Celerway
TELENOR ASA	Telenor
NETTET SVERIGE AB	NET1
NEXTWORKS	NXW
FUNDACION IMDEA NETWORKS	IMDEA
KARLSTADS UNIVERSITET	KaU
POLITECNICO DI TORINO	POLITO

1 Introduction

The MONROE project participates in the Open Data pilot program in Horizon 2020. This document presents a first general template for Data Management Plan (DMP) in MONROE, and provides an overview of some choices made for handling the project's open-data outputs. We will complete such a DMP for each data set that will be released by MONROE. The project aims at updating the DMP at least at M24 and M36.

We will strive to make open as much data as possible, as long as openness does not conflict with industry partners' interests. The project does not use or manage sensitive data, like Personally Identifiable Information nor confidential commercial information.

MONROE will use Zenodo[1] for sharing, archiving and identifying (via DOIs) the open data.

2 Data set references and names

MONROE will follow the conventions from Zenodo. We will use a common name convention to easily identify all MONROE contributions, with a naming space using a "MONROE_" prefix as its root and DOIs from Zenodo as identifiers of data sets. The name space will be further refined once the datasets are finalized.

3 Data set description

MONROE will provide the measurement data as well as scripts, user instruction/manual, and short description of expected results.

The measurement data sets may include the results of key MBB measurements including QoS parameters (latency, loss, jitter, bandwidth), the results of service oriented measurements such as web traffic, network traffic traces and mobile connection metadata. When applicable, we will provide data obtained from such traces and measurements after suitable post-processing.

The results of the measurements will be shared together with the corresponding scripts that are used to generate and analyze the data. In addition, a data set will include instructions on how to use the scripts in order to reproduce and validate the results.

4 Standards and metadata

Data will be organised with a hierarchical structure that enables easy navigation and retrieval. Content management will follow the Zenodo conventions. We will use the metadata form from Zenodo: http://invenio-software.org/wiki/Project/OpenAIREplus/DevelopmentRecordMarkup.

5 Data sharing

Github[2] is the code repository we choose for all open-source software released by the project. In cases where we provide such software, we will link to the corresponding Github repository where relevant.

Scientific publications (and related public deliverables) will be shared on Zenodo together with results files as well as the scripts that are used to produce these results in order to ensure reproducibility.

[1] http://www.zenodo.org
[2] https://github.com

We will use license options from Zenodo, and they will be decided on a case-by-case basis. Whenever possible, we will prioritise use of the Creative Commons licence.

All publications will contain pointers to the relevant data sets in the Zenodo archive. Whenever a new data set or publication becomes available, the MONROE web site[3], MONROE twitter account[4] and MONROE Linkedin group[5] will post news item that will provide the relevant pointers. Even though Zenodo will be used as the main vehicle for data sharing, partners will post open data in their own web sites to maximize spreading of MONROE results.

6 Archiving and preservation (including storage and backup)

Since MONROE will use Zenodo, archiving will be handled there according to the Zenodo terms of service. This service is free of charge.

[3] https://www.monroe-project.eu/
[4] https://twitter.com/H2020MONROE
[5] https://www.linkedin.com/grp/home?gid=8386120

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